

Beggs, Tauren R - DNR

From: Karen Dorow <kdorow@manitowoc.org>
Sent: Tuesday, September 5, 2017 11:58 AM
To: Dave Henderson; Merry, JaNelle P - DNR; GravelPit
Cc: Beggs, Tauren R - DNR; Kasdorf, James H Jr - DNR
Subject: RE: VOC detection in well water sample-T of Newton-Manitowoc County
Attachments: 201709051203.pdf

Ms. Novy just stopped in. Attached is a copy of her test results.

DNR *Janelle Merry* > 920-662-5489



Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 336134001

Report To:
DEBORAH NOVY
2918 S 26TH STREET
MANITOWOC, WI 54220

Invoice To:
DEBORAH NOVY
2918 S 26TH STREET
MANITOWOC, WI 54220
Customer ID: 351894

Collection Date: 8/15/2017 9:30:00 AM
Owner:

Collected By: DEBORAH
Well Completion Date:

Unique Well #: NA
Well Construction:
County: MANITOWOC
Driller or Pump Installers License #:
Sampling Location: 2918 S 26TH STREET
MANITOWOC WI 54220
Sampling Point: OUTSIDE TAP

Date Received: 8/16/2017
Date Reported: 8/18/2017
Sample Reason: OTHER

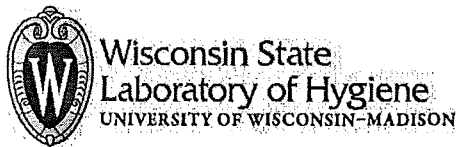
Sample Comments

REREPORTED TO ADD MISSING INFORMATION

OC-Volatiles

Part per billion

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 08/16/17	Analysis Date 08/16/17				
Dichlorodifluoromethane	VOC Homeowner	ND	ug/L	0.50	1.6
Chloromethane	VOC Homeowner	ND	ug/L	1.0	3.2
<u>Vinyl chloride</u>	VOC Homeowner	<u>0.21F</u>	ug/L	0.20	0.60
Bromomethane	VOC Homeowner	ND	ug/L	0.50	1.6
Chloroethane	VOC Homeowner	ND	ug/L	0.50	1.6
Trichlorofluoromethane	VOC Homeowner	ND	ug/L	0.50	1.6
1,1-Dichloroethene	VOC Homeowner	ND	ug/L	0.50	1.6
Carbon disulfide	VOC Homeowner	ND	ug/L	0.30	1.0
Trichlorotrifluoroethane	VOC Homeowner	ND	ug/L	0.50	1.6
Methylene chloride	VOC Homeowner	ND	ug/L	0.50	1.6
Acetone	VOC Homeowner	ND	ug/L	3.0	10
trans-1,2-Dichloroethene	VOC Homeowner	ND	ug/L	0.50	1.6



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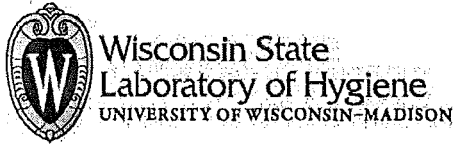
NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 336134001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 08/16/17	Analysis Date 08/16/17				
Hexane	VOC Homeowner	ND	ug/L	0.50	1.6
Methyl tert-Butyl ether (MTBE)	VOC Homeowner	ND	ug/L	0.30	1.0
Isopropyl Ether	VOC Homeowner	ND	ug/L	0.25	0.80
1,1-Dichloroethane	VOC Homeowner	ND	ug/L	0.30	1.6
<u>2</u> cis-1,2-Dichloroethene	VOC Homeowner	<u>1.1</u>	ug/L	0.30	1.0
2,2-Dichloropropane	VOC Homeowner	ND	ug/L	0.50	1.6
Bromochloromethane	VOC Homeowner	ND	ug/L	0.50	1.6
Chloroform	VOC Homeowner	ND	ug/L	0.25	0.80
Carbon tetrachloride	VOC Homeowner	ND	ug/L	0.50	1.6
Tetrahydrofuran	VOC Homeowner	ND	ug/L	2.0	6.4
1,1,1-Trichloroethane	VOC Homeowner	ND	ug/L	0.50	1.6
1,1-Dichloropropene	VOC Homeowner	ND	ug/L	0.50	1.6
Methyl Ethyl Ketone (MEK)	VOC Homeowner	ND	ug/L	3.0	10
Benzene	VOC Homeowner	ND	ug/L	0.30	1.0
1,2-Dichloroethane	VOC Homeowner	ND	ug/L	0.50	1.6
Trichloroethene	VOC Homeowner	ND	ug/L	0.50	1.6
Dibromomethane	VOC Homeowner	ND	ug/L	0.50	1.6
1,2-Dichloropropane	VOC Homeowner	ND	ug/L	0.50	1.6
Bromodichloromethane	VOC Homeowner	ND	ug/L	0.50	1.6
cis-1,3-Dichloropropene	VOC Homeowner	ND	ug/L	0.30	1.0
Toluene	VOC Homeowner	ND	ug/L	0.25	0.80
Tetrachloroethene	VOC Homeowner	ND	ug/L	0.50	1.6
4-Methyl-2-pentanone (MIBK)	VOC Homeowner	ND	ug/L	2.0	6.4
trans-1,3-Dichloropropene	VOC Homeowner	ND	ug/L	0.50	1.6
1,1,2-Trichloroethane	VOC Homeowner	ND	ug/L	0.50	1.6
Chlorodibromomethane	VOC Homeowner	ND	ug/L	0.50	1.6
1,3-Dichloropropane	VOC Homeowner	ND	ug/L	0.30	1.0
1,2-Dibromoethane	VOC Homeowner	ND	ug/L	0.50	1.6
Chlorobenzene	VOC Homeowner	ND	ug/L	0.25	0.80



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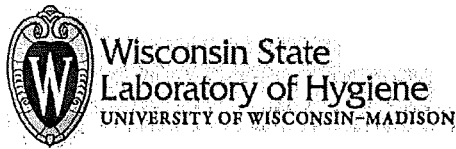
NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 336134001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 08/16/17	Analysis Date 08/16/17				
Ethyl Benzene	VOC Homeowner	ND	ug/L	0.20	0.60
1,1,1,2-Tetrachloroethane	VOC Homeowner	ND	ug/L	0.50	1.6
m/p-xylene	VOC Homeowner	ND	ug/L	0.40	1.3
o-Xylene	VOC Homeowner	ND	ug/L	0.30	1.0
Styrene	VOC Homeowner	ND	ug/L	0.25	0.80
Bromoform	VOC Homeowner	ND	ug/L	1.0	3.2
Isopropylbenzene (Cumene)	VOC Homeowner	ND	ug/L	0.20	0.60
Bromobenzene	VOC Homeowner	ND	ug/L	0.50	1.6
n-Propylbenzene	VOC Homeowner	ND	ug/L	0.20	0.60
1,1,2,2-Tetrachloroethane	VOC Homeowner	ND	ug/L	0.50	1.6
2-Chlorotoluene	VOC Homeowner	ND	ug/L	0.30	1.0
1,3,5-Trimethylbenzene	VOC Homeowner	ND	ug/L	0.20	0.60
1,2,3-Trichloropropane	VOC Homeowner	ND	ug/L	1.0	3.2
4-Chlorotoluene	VOC Homeowner	ND	ug/L	0.30	1.0
tert-Butylbenzene	VOC Homeowner	ND	ug/L	0.50	1.6
1,2,4-Trimethylbenzene	VOC Homeowner	ND	ug/L	0.20	0.60
sec-Butylbenzene	VOC Homeowner	ND	ug/L	0.20	0.60
4-Isopropyltoluene	VOC Homeowner	ND	ug/L	0.20	0.60
1,3-Dichlorobenzene	VOC Homeowner	ND	ug/L	0.25	0.80
1,4-Dichlorobenzene	VOC Homeowner	ND	ug/L	0.25	0.80
n-Butylbenzene	VOC Homeowner	ND	ug/L	0.20	0.60
1,2-Dichlorobenzene	VOC Homeowner	ND	ug/L	0.25	0.80
1,2-Dibromo-3-chloropropane	VOC Homeowner	ND	ug/L	1.0	3.2
Hexachlorobutadiene	VOC Homeowner	ND	ug/L	0.50	1.6
1,2,4-Trichlorobenzene	VOC Homeowner	ND	ug/L	0.50	1.6
Naphthalene	VOC Homeowner	ND	ug/L	0.30	1.0
1,2,3-Trichlorobenzene	VOC Homeowner	ND	ug/L	0.50	1.6



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WSLH Sample: 336134001

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

F next to result = Result is between LOD and LOQ

Z next to result = Result is between 0 (zero) and LOD

if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Previous Reports

This sample was previously reported under the following report ID(s): 4436382

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270



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WSLH Sample: 336134001

Drinking Water Standards for Result Interpretation

Parameter	Public Health Standard	Public Welfare Standard	Lifetime Health Advisory Limit
Aluminum	200 ug/L		
Arsenic (Total)	10 ug/L		
Atrazine*	3.0 ppb		
Cadmium	5 ug/L		
Calcium	No standard		
Chromium (Total)	100 ug/L		
Cobalt	40 ug/L		
Copper	1300 ug/L		
Fluoride	See below		
Hardness	No standard (see below)		
Iron		0.3 mg/L	
Lead	15 ug/L		
Magnesium	No standard		
Manganese	300 ug/L	50 ug/L	
Molybdenum			90 ug/L **
Nickel	100 ug/L		
Nitrate	10 mg/L		
Nitrate + Nitrite	10 mg/L		
Nitrite	1 mg/L		
Strontium			4000 ug/L (EPA)
Vanadium	30 ug/L		
Zinc		5000 ug/L	

Note: This table does not contain a complete list of standards. A complete list can be found in s. NR 140, Wis. Adm. Code.

Public Health Standard: Limit above which the water should not be consumed or used for food preparation. (s. NR 140.10, Wis. Adm. Code)

Public Welfare Standard: Limit above which the substance may adversely affect the cosmetic or aesthetic quality of drinking water. (s. NR 140.12, Wis. Adm. Code)

Lifetime Health Advisory Limit: Consuming water below this limit for a lifetime is not expected to cause adverse health effects. (United States Environmental Protection Agency (EPA) or Wisconsin Dept. of Health Services (WI DHS))

*The Atrazine standard includes Atrazine and its breakdown products.

**NR 140 currently lists a Public Health Standard for Molybdenum of 40 ug/L, however this number is based on the EPA Lifetime Health Advisory Limit which is currently under review. The 90 ug/L Lifetime Health Advisory is recommended by the WI Dept of Health Services and should be used in the evaluation of the safety of your drinking water.

Other analytes:	Concentration:	Interpretation:
Fluoride	0.7 mg/L	Optimal
	>2.0 mg/L	Children under 8 should not consume
	>4.0 mg/L	Children and adults should not consume
Hardness	<17.1 mg/L	Soft
	17.1-60 mg/L	Slightly hard
	60-120 mg/L	Moderately hard
	120-180 mg/L	Hard
	>180 mg/L	Very Hard

Beggs, Tauren R - DNR

From: Beggs, Tauren R - DNR
Sent: Tuesday, September 5, 2017 11:59 AM
To: 'Henderson, Dave'
Cc: Kasdorf, James H Jr - DNR; Merry, JaNelle P - DNR; GravelPit (GravelPit@manitowoc.org)
Subject: RE: VOC detection in well water sample-T of Newton-Manitowoc County

Thanks for the update Dave

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 662-5178

Tauren.Beggs@wisconsin.gov

From: Henderson, Dave [mailto:Dave.Henderson@aecom.com]
Sent: Tuesday, September 05, 2017 11:54 AM
To: Merry, JaNelle P - DNR; GravelPit (GravelPit@manitowoc.org)
Cc: Beggs, Tauren R - DNR; Kasdorf, James H Jr - DNR
Subject: RE: VOC detection in well water sample-T of Newton-Manitowoc County

JaNelle and Tauren,

Thank you for the heads up.

The City has been in-contact with the home owner this morning and is arranging to receive a copy of their lab results.

Additionally, the City has authorized AECOM to obtain a confirmation potable well water sample. We will be on-site this afternoon to obtain the water sample and will deliver it to Synergy Lab, Appleton, for a rush analysis. Hope to have results on Thursday.

Please note, while the City is responding in an expedient manner as a matter of public health and welfare, this does not mean that the City is currently claiming responsibility for the impacts to the water at 2918 S. 26th Street.

We'll keep you in the loop as we get our results.

Thanks
dsh

David Henderson, P.E.
Senior Project Manager/Director, Environment
D 414-944-6190
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From: Merry, JaNelle P - DNR [<mailto:Janelle.Merry@wisconsin.gov>]
Sent: Tuesday, September 05, 2017 8:46 AM
To: Henderson, Dave
Cc: Beggs, Tauren R - DNR; Kasdorf, James H Jr - DNR
Subject: VOC detection in well water sample-T of Newton-Manitowoc County

Hi Dave,

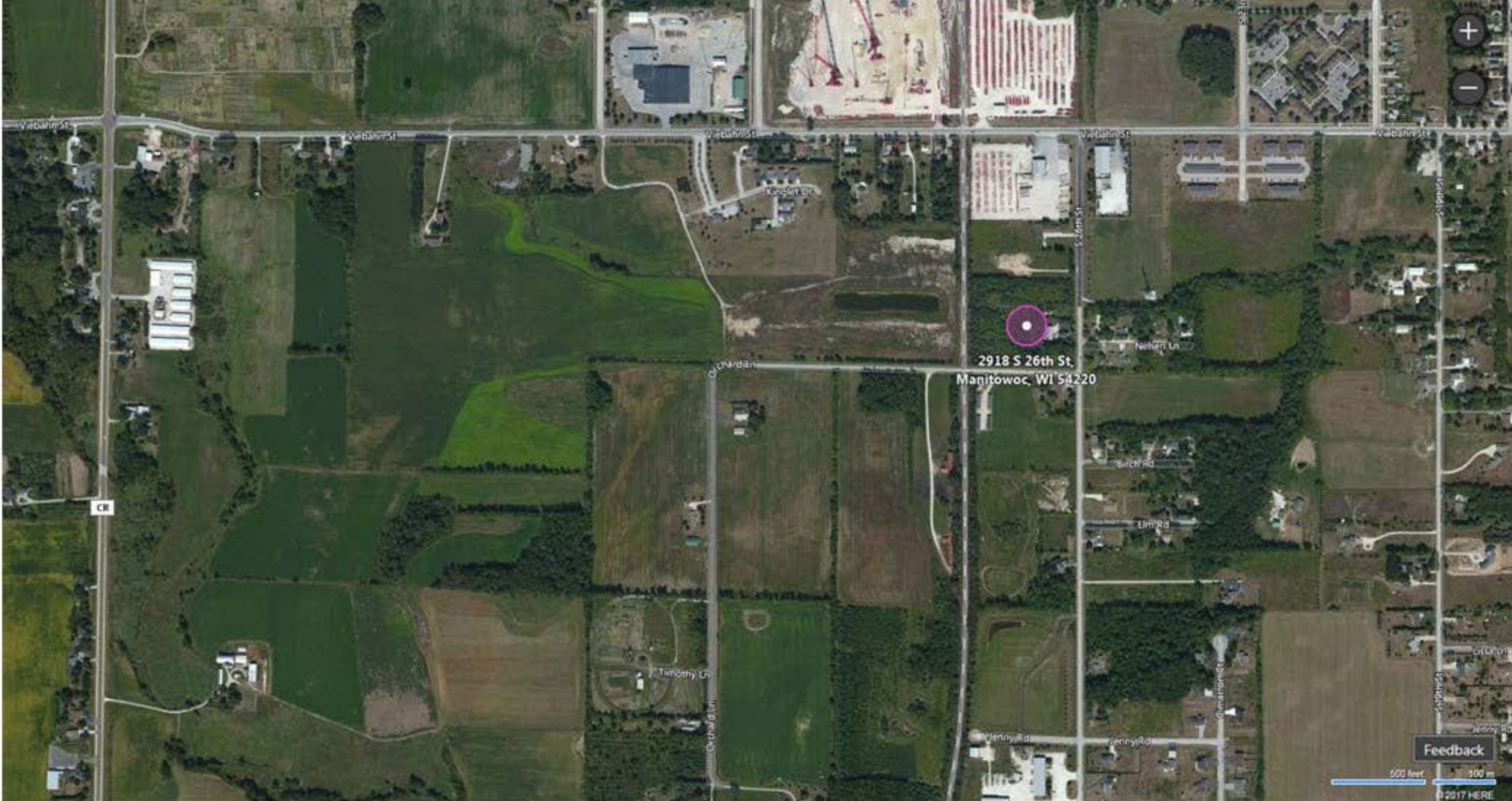
I hope you had a fantastic Labor Day weekend!

I'm reaching out to you because I just received a phone call from a Manitowoc resident (t of Newton) who sampled their own well water for VOCs and has some issues. The information they gave me was over the phone. They will be sending copies of the lab results to us this week. Based on the information they gave me they are on a private well at 2918 S 26th, Manitowoc, WI (see map below); the lab results indicate Vinyl Chloride at .21 and CIS-1,2 dichloroethene at 1.1. The sample was taken from their outside tap. They do not have their well construction report (WCR) handy and I attempted to find one for their residence. I could not find a match for their exact location but based on my review of available WCRs it looks like most of the wells in the neighborhood have 130 to 140 feet of casing with limestone at approximately 130 feet and total depths of around 130 to 160 feet.

The resident is concerned about where the contamination might be coming from and what she can do to get rid of it. I told her that I would be in touch with you and the R&R folks. Not sure if this is related to the T of Newton landfill issue or neighboring industry to the north.

The resident's contact information is:

Deb Novy
2918 S. 26th
Manitowoc, WI
Phone: 920-684-9046



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JaNelle Merry
Private Water Supply Specialist-Bureau of Drinking Water and Groundwater
Wisconsin Department of Natural Resources
2984 Shawano Ave, Green Bay, WI 54313
Phone: 920-662-5484
Fax: 920-662-5413
JaNelle.Merry@wisconsin.gov

